

SEQUENCE LISTING

<110> Lau, Ted
Lin, Rick
Parkes, Debbie
Parry, Gordon
Schneider, Douglas
Steinbrecher, Renate
Van Heuit, Pam T
Wu, John

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<151> 2000-04-27

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<170> PatentIn Ver. 2.0

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gctggaccgg caccaaaggg ctggcagaaa tgggcgcctg gctgattcct aggcaagg 180
cggcagcaag gaggagaggc cgccagttct ggagcagagc cgagacgaag cagttctgga 240
gtgcctgaac ggcccccctga gccctaccccg cctggcccac t atg gtc cag agg ctg 296
Met Val Gln Arg Leu
1 5

tgg gtg agc cgc ctg ctg cgg cac cgg aaa gcc cag ctc ttg ctg gtc 344
Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala Gln Leu Leu Leu Val
10 15 20

aac ctg cta acc ttt ggc ctg gag gtg tgt ttg gcc gca ggc atc acc 392
Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu Ala Ala Gly Ile Thr
25 30 35

tat	gtg	ccg	cct	ctg	ctg	gaa	gtg	ggg	gta	gag	gag	aag	ttc	atg		440
Tyr	Val	Pro	Pro	Leu	Leu	Glu	Val	Gly	Val	Glu	Glu	Lys	Phe	Met		
40				45					50							
acc	atg	gtg	ctg	ggc	att	ggt	cca	gtg	ctg	ggc	ctg	gtc	tgt	gtc	ccg	488
Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly	Leu	Val	Cys	Val	Pro	
55				60					65							
ctc	cta	ggc	tca	gcc	agt	gac	cac	tgg	cgt	gga	cgc	tat	ggc	cgc	cgc	536
Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly	Arg	Tyr	Gly	Arg	Arg	
70				75					80			85				
cgg	ccc	ttc	atc	tgg	gca	ctg	tcc	ttg	ggc	atc	ctg	ctg	agc	ctc	ttt	584
Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile	Leu	Leu	Ser	Leu	Phe	
				90				95			100					
ctc	atc	cca	agg	gcc	ggc	tgg	cta	gca	ggg	ctg	ctg	tgc	ccg	gat	ccc	632
Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu	Leu	Cys	Pro	Asp	Pro	
				105				110			115					
agg	ccc	ctg	gag	ctg	gca	ctg	ctc	atc	ctg	ggc	gtg	ggg	ctg	ctg	gac	680
Arg	Pro	Leu	Glu	Leu	Ala	Leu	Ile	Leu	Ile	Gly	Val	Gly	Leu	Leu	Asp	
				120				125			130					
ttc	tgt	ggc	cag	gtg	tgc	ttc	act	cca	ctg	gag	gcc	ctg	ctc	tct	gac	728
Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu	Ala	Leu	Leu	Ser	Asp	
				135				140			145					
ctc	ttc	cg	ccg	gac	cac	tgt	cgc	cag	gcc	tac	tct	tct	gtc	tat	gcc	776
Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala	Tyr	Ser	Val	Tyr	Ala	
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ttc	atg	atc	agt	ctt	ggg	ggc	tgc	ctg	ggc	tac	ctc	ctg	cct	gcc	att	824
Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr	Leu	Leu	Pro	Ala	Ile	
				170				175			180					
gac	tgg	gac	acc	agt	gcc	ctg	gcc	ccc	tac	ctg	ggc	acc	cag	gag	gag	872
Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	Leu	Gly	Thr	Gln	Glu	Glu	
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tgc	ctc	ttt	ggc	ctg	ctc	acc	ctc	atc	ttc	ctc	acc	tgc	gta	gca	gcc	920
Cys	Leu	Phe	Gly	Leu	Leu	Thr	Leu	Ile	Phe	Leu	Thr	Cys	Val	Ala	Ala	
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aca	ctg	ctg	gtg	gct	gag	gag	gca	gcf	ctg	ggc	ccc	acc	gag	cca	gca	968
Thr	Leu	Leu	Val	Ala	Glu	Glu	Ala	Ala	Leu	Gly	Pro	Thr	Glu	Pro	Ala	
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gaa	ggg	ctg	tcg	gcc	ccc	tcc	ttg	tcg	ccc	cac	tgc	tgt	cca	tgc	cg	1016
Glu	Gly	Leu	Ser	Ala	Pro	Ser	Leu	Ser	Pro	His	Cys	Cys	Pro	Cys	Arg	
				230				235			240			245		
gcc	cgc	ttg	gct	ttc	cg	aac	ctg	ggc	gcc	ctg	ctt	ccc	cg	ctg	cac	1064
Ala	Arg	Leu	Ala	Phe	Arg	Asn	Leu	Gly	Ala	Leu	Leu	Pro	Arg	Leu	His	
				250				255			260					

cag ctg tgc tgc cgc atg ccc cgc acc ctg cgc cgg ctc ttc gtg gct Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala 265	270	275	1112	
gag ctg tgc agc tgg atg gca ctc atg acc ttc acg ctg ttt tac acg Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr 280	285	290	1160	
gat ttc gtg ggc gag ggg ctg tac cag ggc gtg ccc aga gct gag ccg Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro 295	300	305	1208	
ggc acc gag gcc cgg aga cac tat gat gaa ggc gtt cgg atg ggc agc Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met Gly Ser 310	315	320	325	1256
ctg ggg ctg ttc ctg cag tgc gcc atc tcc ctg gtc ttc tct ctg gtc Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe Ser Leu Val 330	335	340	1304	
atg gac cgg ctg gtg cag cga ttc ggc act cga gca gtc tat ttg gcc Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala 345	350	355	1352	
agt gtg gca gct ttc cct gtg gct gcc ggt gcc aca tgc ctg tcc cac Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys Leu Ser His 360	365	370	1400	
agt gtg gcc gtg gtg aca gct tca gcc gcc ctc acc ggg ttc acc ttc Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly Phe Thr Phe 375	380	385	1448	
tca gcc ctg cag atc ctg ccc tac aca ctg gcc tcc ctc tac cac cgg Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu Tyr His Arg 390	395	400	405	1496
gag aag cag gtg ttc ctg ccc aaa tac cga ggg gac act gga ggt gct Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala 410	415	420	1544	
agc agt gag gac agc ctg atg acc agc ttc ctg cca ggc cct aag cct Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro 425	430	435	1592	
gga gct ccc ttc cct aat gga cac gtg ggt gct gga ggc agt ggc ctg Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Ser Gly Leu 440	445	450	1640	
ctc cca cct cca ccc gcg ctc tgc ggg gcc tct gcc tgt gat gtc tcc Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val Ser 455	460	465	1688	
gta cgt gtg gtg gtg ggt gag ccc acc gag gcc agg gtg gtt ccg ggc Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val Val Pro Gly 470	475	480	485	1736

cg ^g gg ^c at ^c tgc ^{tgc} ctg ^{gac} ctc ^{gtc} gcc ^{atc} atc ^{ctg} gat ^{gt} agt ^{gt} gcc ^{ttc} ttc ^{ctg} ctg ^{ctg}	1784
Arg ^{Arg} Gly ^{Gly} Ile ^{Ile} Cys ^{Cys} Leu ^{Leu} Asp ^{Asp} Leu ^{Leu} Ala ^{Ala} Ile ^{Ile} Leu ^{Leu} Asp ^{Asp} Ser ^{Ser} Ala ^{Ala} Phe ^{Phe} Leu ^{Leu}	
490	495
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 tcc ^c cag ^a gt ^g gc ^c cca ^{tcc} ctg ^{ttt} at ^g ggc ^{tc} tcc ^{att} gtc ^{cag} ctc ^{agc}	1832
Ser ^{Ser} Gln ^{Gln} Val ^{Val} Ala ^{Ala} Pro ^{Pro} Ser ^{Ser} Leu ^{Leu} Phe ^{Phe} Met ^{Met} Gly ^{Gly} Ser ^{Ser} Ile ^{Ile} Val ^{Val} Gln ^{Gln} Leu ^{Leu} Ser ^{Ser}	
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 cag ^c tct ^t gtc ^t act ^g gc ^c tat ^t at ^g gt ^g tct ^t gc ^c gca ^g ggc ^c ctg ^g ggt ^g ctg ^g gtc ^t	1880
Gln ^{Gln} Ser ^{Ser} Val ^{Val} Thr ^{Thr} Ala ^{Ala} Tyr ^{Tyr} Met ^{Met} Val ^{Val} Ser ^{Ser} Ala ^{Ala} Gly ^{Gly} Leu ^{Leu} Gly ^{Gly} Leu ^{Leu} Val ^{Val}	
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 gc ^c att ^t tac ^t ttt ^t gct ^t aca ^c cag ^a gta ^g gta ^t ttt ^t gac ^g aag ^a agc ^g gac ^t ttg ^g gc ^c	1928
Ala ^{Ala} Ile ^{Ile} Tyr ^{Tyr} Phe ^{Phe} Ala ^{Ala} Thr ^{Thr} Gln ^{Gln} Val ^{Val} Val ^{Val} Phe ^{Phe} Asp ^{Asp} Lys ^{Lys} Ser ^{Ser} Asp ^{Asp} Leu ^{Leu} Ala ^{Ala}	
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 aaa ^a tac ^t tca ^c gc ^g tag ^g aaaacttcca ^{tttcca} gcacattggg ^{tttcca} gtggaggccc ^{tttcca} tgcctcaactg ^{tttcca}	1983
Lys ^{Lys} Tyr ^{Tyr} Ser ^{Ser} Ala ^{Ala}	
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<213> Homo sapiens

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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
50 55 60

Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
65 70 75 80

Arg Tyr Gly Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
85 90 95

Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
100 105 110

Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
115 120 125

Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
130 135 140

Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
145 150 155 160

Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
165 170 175

Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
180 185 190

Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
195 200 205

Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
210 215 220

Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
225 230 235 240

Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
245 250 255

Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
260 265 270

Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
275 280 285

Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
290 295 300

Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
305 310 315 320

Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
325 330 335

Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
340 345 350

Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
355 360 365

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
370 375 380

Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
385 390 395 400

Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
405 410 415

Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
420 425 430

Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
435 440 445

Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
450 455 460

Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
465 470 475 480

Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
485 490 495

Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
500 505 510

Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
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Lys Ser Asp Leu Ala Lys Tyr Ser Ala
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<223> Description of Artificial Sequence: primer

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<220>
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<212> DNA
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<220>
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<210> 6
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<212> DNA
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<220>
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<212> DNA
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<220>
<223> Description of Artificial Sequence: primer

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<212> DNA
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<210> 19
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<213> Homo sapiens

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Glu Pro

<210> 20
<211> 16
<212> PRT
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<210> 21
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<212> PRT
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Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala
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Ser Ser Glu Asp Ser Leu Met Thr Ser Phe
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Glu

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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
20 25

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<400> 26
Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
1 5 10 15